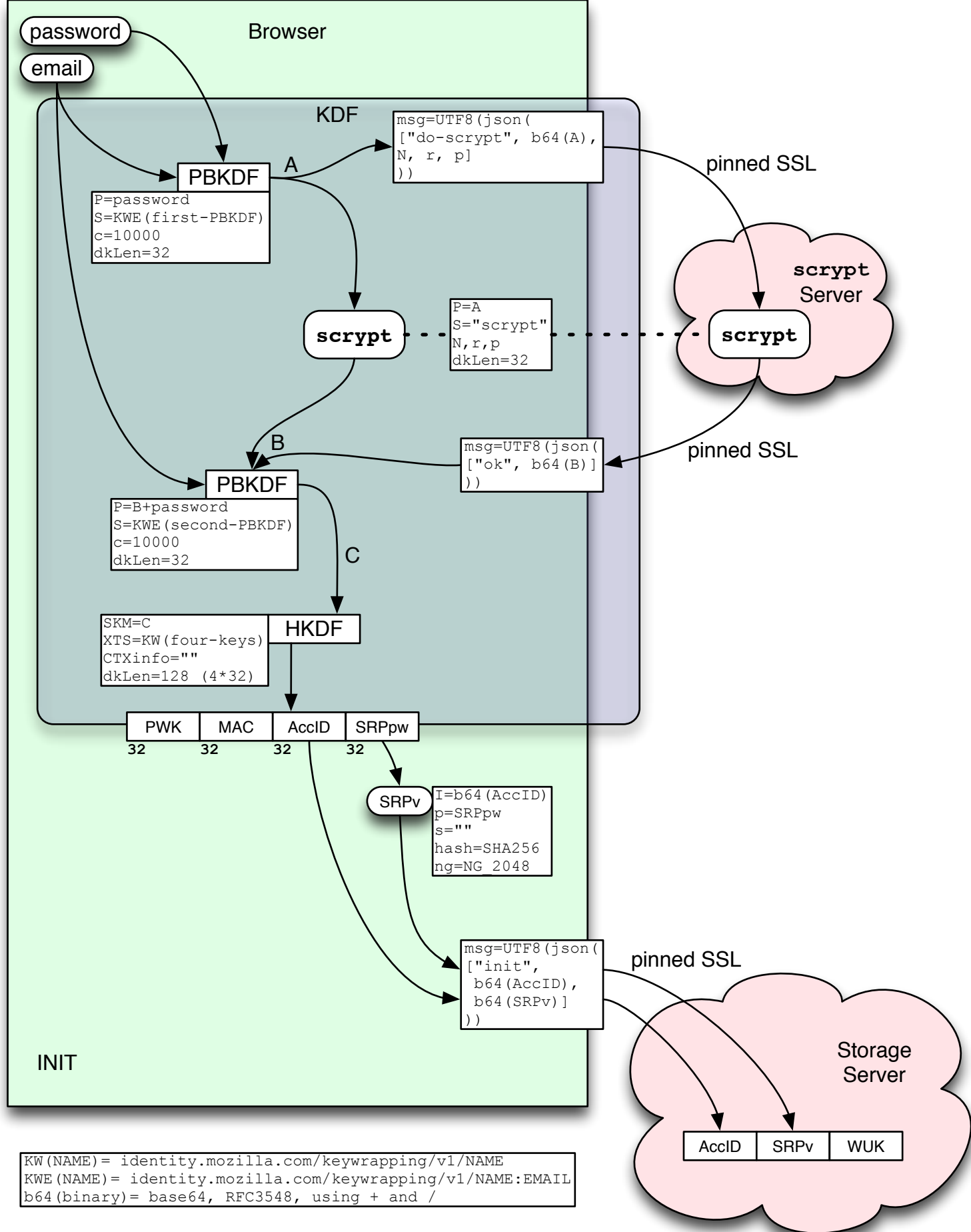




Browser

PWK	MAC	AccID	SRPpw
32	32	32	32

Storage Server

AccID	SRPv	WUK
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REQUEST

sessID

SRP

```
msg=UTF8(json(
  ["srp-1",
   sessID, b64(AccID), b64(A)]
))
```

```
msg=UTF8(json(
  ["ok",
   b64(s), b64(B)]
))
```

```
msg=UTF8(json(
  ["srp-2",
   sessID, b64(M)]
))
```

```
msg=UTF8(json(
  ["ok",
   b64(HAMK)]
))
```

sessKey

HKDF

```
SKM=sessKey
XTS=KW(session-keys)
CTXinfo=""
dkLen=128 (4*32)
```

ENC1	MAC1	ENC2	MAC2
32	32	32	32

AES+MAC
encrypt

```
msg=UTF8(json(
  REQUEST
))
```

AES+MAC
decrypt

```
msg=UTF8(json(
  "encrypted-request",
  sessID, b64(enc_data),
))
```

msg=b64(enc_data)

HKDF

```
SKM=sessKey
XTS=KW(session-keys)
CTXinfo=""
dkLen=128 (4*32)
```

ENC1	MAC1	ENC2	MAC2
32	32	32	32

AES+MAC
decrypt

AES+MAC
encrypt

```
msg=UTF8(json(
  RESPONSE
))
```

sessID = b64(256-bit random string)
different for each request

